

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	16	proton near8 conductor near8 gas near8 (sensor or detector)	USPAT
2	BRS	L2	6	1 and electrolyte near8 membrane	USPAT
3	BRS	L4	3	3 and cap	USPAT
4	BRS	L3	6	2 and electrode	USPAT
5	BRS	L5	4	1 and water near8 reservoir	USPAT
6	BRS	L6	29	proton near8 conduct\$6 near8 gas near8 (sensor or detector)	USPAT
7	BRS	L7	13	6 and electrolyte near8 membrane	USPAT
8	BRS	L8	7	6 and water near8 reservoir	USPAT
9	BRS	L9	6	7 and water near8 reservoir	USPAT
10	BRS	L10	22	proton near8 conductor near8 gas near8 (sensor or detector)	US- PGPUB; USPAT
11	BRS	L11	61	proton near8 conduct\$6 near8 gas near8 (sensor or detector)	US- PGPUB; USPAT
12	BRS	L12	32	11 and electrolyte near8 membrane	US- PGPUB; USPAT
13	BRS	L13	14	12 and water near8 reservoir	US- PGPUB; USPAT
14	BRS	L14	7	11 and cap	USPAT
15	BRS	L15	3	11 and cap with (hole or via or channel or opening)	USPAT
16	BRS	L16	7	11 and cap with (hole or via or channel or opening)	US- PGPUB; USPAT

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=> s proton (8w) conduct? (8w) gas (8w) (sensor or detector or monitor)
L2 74 PROTON (8W) CONDUCT? (8W) GAS (8W) (SENSOR OR DETECTOR OR MONITO
R)

=> s l2 and electrolyte (8w) membrane
L3 5 L2 AND ELECTROLYTE (8W) MEMBRANE

=> s l2 and electrolyte (s) membrane
L4 6 L2 AND ELECTROLYTE (S) MEMBRANE

=> s l4 and electrode
L5 1 L4 AND ELECTRODE

=> s l2 and electrode
L6 41 L2 AND ELECTRODE

=> s l6 and water (8w) (reservoir or chamber or container)
L7 2 L6 AND WATER (8W) (RESERVOIR OR CHAMBER OR CONTAINER)

=> s l6 and cap (8w) (opening or hole or via or channel or port)
L8 0 L6 AND CAP (8W) (OPENING OR HOLE OR VIA OR CHANNEL OR PORT)

=> display 17 1-2 ibib abs

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:653383 CAPLUS

DOCUMENT NUMBER: 139:190225

TITLE: Proton conductive gas
sensor and gas detection method

INVENTOR(S): Inoue, Tomoihiro; Kaneyasu, Kazunari; Ogoshi, Hideki

PATENT ASSIGNEE(S): Figaro Engineering, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
JP 2003232767	A2	20030822	JP 2002-29077	20020206
PRIORITY APPLN. INFO.:			JP 2002-29077	20020206

AB The device comprises a sensor body and a water vapor generator. The sensor body has a working electrode, a counter electrode, and a proton conductive film. The water vapor generator has a water pack housed inside a metal container. The water pack is made of a synthetic resin film which allows water vapor permeation at a desired speed but not the water. During the measurement the water vapor is generated and introduced into the sensor body and an unknown gas sample is measured by monitoring the elec. current between the working and counter electrodes.

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:927702 CAPLUS

DOCUMENT NUMBER: 137:390368

TITLE: Proton conductor gas
sensor

INVENTOR(S): Inoue, Tomohiro; Okoshi, Hideki; Nakahara, Takeshi;
Kaneyasu, Kazunari

PATENT ASSIGNEE(S): Figaro Engineering, Inc., Japan

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2002097420	A1	20021205	WO 2002-JP5027	20020523
WO 2002097420	C1	20040115		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002258227	A1	20021209	AU 2002-258227	20020523
EP 1393054	A1	20040303	EP 2002-728133	20020523
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
CN 1511255	A	20040707	CN 2002-810642	20020523

JP 2005503541	T2	20050203	JP 2003-500550	20020523
US 2004134780	A1	20040715	US 2003-476947	20031106
PRIORITY APPLN. INFO.:			JP 2001-157167	A 20010525
			WO 2002-JP5027	W 20020523

AB A membrane electrodes assembly (MEA) having a proton conductive membrane is sandwiched by metal plates and they are further sandwiched by heat pressable films. An opening and an opening are formed in the heat pressable film and the metal plate , resp. so that an electrode is used as the sensing electrode and exposed to atmospheric to be measured. Openings are formed in the heat pressable film and metal plate , resp. so that an electrode is used as the counter electrode, and water vapor is supplied to the electrode from a water pack.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT